OIPE

RAW SEQUENCE LISTING   DATE: 08/16/2001
PATENT APPLICATION: US/09/923,844   TIME: 12:54:02

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08162001\I923844.raw

```
   4 <110> APPLICANT: Bao, Zhongmeng
   5        Lu, Guihua
   7 <120> TITLE OF INVENTION: Sclerotinia-inducible Genes and
   8        Promoters and Their Uses
  10 <130> FILE REFERENCE: 35718/234631
:--> 12 <140> CURRENT APPLICATION NUMBER: US/09/923,844
:--> 12 <141> CURRENT FILING DATE: 2001-08-07
  12 <150> PRIOR APPLICATION NUMBER: US 60/224,603
  13 <151> PRIOR FILING DATE: 2000-08-11
  15 <160> NUMBER OF SEQ ID NOS: 20
  17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

:RRORED SEQUENCES

```
 128 <210> SEQ ID NO: 2
 129 <211> LENGTH: 371
 130 <212> TYPE: PRT
 131 <213> ORGANISM: Helianthus annuus
 133 <400> SEQUENCE: 2
 134 Met Glu Phe Leu Lys Ala Pro Thr Leu Leu Leu Val Ile Phe Ser Leu
 135  1               5                  10                  15
 136 Ala Ile Cys Ser Pro Ile Ser Ala Gln Asn Lys Gly Gly Tyr Trp Pro
 137             20                  25                  30
 138 Ser Trp Ala Gln Asp Phe Leu Pro Pro Ser Asn Ile Gln Thr Ala Tyr
 139             35                  40                  45
 140 Phe Thr His Val Tyr Tyr Ala Phe Leu Ser Pro Asn Asn Val Thr Phe
 141     50                  55                  60
 142 Gln Phe Asp Val His Arg Thr Thr Ala Ser Ala Leu Asn Ser Phe Asn
 143 65                  70                  75                  80
 144 Thr Ala Leu His Gly Lys Asn Pro Pro Val Lys Thr Leu Phe Ser Ile
 145             85                  90                  95
 146 Gly Gly Gly Ser Ala Gly Val Lys Gln Leu Phe Ser Lys Leu Ala Ser
 147             100                 105                 110
 148 Ser Pro Gly Ser Arg Ala Ala Phe Ile Arg Ser Thr Ile Gln Val Ala
 149             115                 120                 125
 150 Arg Asn Tyr Tyr Phe Asp Gly Ala Asp Leu Asp Trp Glu Tyr Pro Glu
 151         130                 135                 140
 152 Thr Gln Thr Asp Met Asn Asn Phe Gly Leu Leu Leu Asp Glu Trp Arg
 153 145                 150                 155                 160
 154 Val Ala Val Asn Asn Glu Ala Thr Ser Thr Gly Lys Pro Arg Leu Leu
 155                 165                 170                 175
 156 Leu Ser Ala Ala Thr Arg His Glu Pro Glu Val Arg Asp Asn Gly Val
 157             180                 185                 190
 158 Ala Lys Tyr Pro Val Ala Ser Ile Asn Lys Asn Leu Asp Gly Ile Asn
 159             195                 200                 205
 160 Ala Met Cys Tyr Asp Tyr His Gly Pro Trp Thr Pro Asp Ala Thr Gly
```

see
p. 4

RAW SEQUENCE LISTING   DATE: 08/16/2001
PATENT APPLICATION: US/09/923,844   TIME: 12:54:02

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08162001\I923844.raw

```
161     210                   215                   220
162 Ala Pro Ala Ala Leu Tyr Asn Pro Asn Gly Ser Leu Ser Thr Ser Asn
163 225                   230                   235                   240
164 Gly Leu Gln Ser Trp Ile Ser Ala Gly Ile Gln Arg Gln Lys Leu Val
165                   245                   250                   255
166 Met Gly Met Pro Leu Tyr Gly Trp Thr Trp Lys Leu Lys Asn Pro Ser
167                   260                   265                   270
168 Val Asn Gly Ile Gly Ala Pro Ala Ala Gly Ile Gly Pro Gly Asn Glu
169          275                   280                   285
170 Gly Ala Met Leu Tyr Ser Glu Val Gln Gln Phe Asn Ala Gln Asn Asn
171     290                   295                   300
172 Ala Arg Val Val Tyr Asp Thr Gln Thr Val Ser Tyr Tyr Ser Tyr Ser
173 305                   310                   315                   320
174 Gly Thr Thr Trp Ile Gly Tyr Asp Asp Val Asn Ser Val Gln Arg Lys
175                   325                   330                   335
176 Val Gln Tyr Ala Lys Ser Leu Asn Ile Gly Gly Tyr Phe Phe Trp Thr
```

E--> 177
```
        340                   345                   350         ⌐Ala Val Gly Asp Gln Asp Trp Lys
                                                              ⌐
221 <210> SEQ ID NO: 4
222 <211> LENGTH: 97
223 <212> TYPE: PRT
224 <213> ORGANISM: Helianthus annuus
226 <400> SEQUENCE: 4
227 Met Lys Ala Pro Thr Met Ile Cys Phe Leu Val Ala Val Ile Ala Ala
228 1               5                   10                  15
229 Met Met Val Phe Met Gly Gln Leu Pro Ala Ala Thr Ala Val Thr Cys
230          20                   25                   30
231 Asn Tyr Met Glu Leu Val Pro Cys Ala Gly Ala Ile Ser Ser Ser Gln
232          35                   40                   45
233 Pro Pro Ser Gly Ser Cys Cys Ser Lys Val Arg Glu Gln Arg Pro Cys
234     50                   55                   60
235 Phe Cys Gly Tyr Leu Arg Asn Pro Ser Leu Arg Gln Phe Val Ser Pro
```

see p.4

E--> 236
```
65                   70                   75              80⌐Ala Ala Ala Gln Lys Ile Ala Ser
                                                           ⌐
238 <210> SEQ ID NO: 5
239 <211> LENGTH: 849
240 <212> TYPE: DNA
241 <213> ORGANISM: Helianthus annuus
243 <400> SEQUENCE: 5
```

p.4

```
244 cgtcgtttcg cttgcagggg gataaaagat aatatcatga tcaccattca tcacgcctaa     60
245 aattcctcct cttagtcaat tgtgaatatt ttgtaattat tgtgtagact ataactgtta    120
246 tgtctttgca tatatttctc cttgtaatta gccttgtatt ccagtatata atgatatcaa    180
247 aactctctaa tcaagcagag agagttccct gaattacatc accgctgcca ttttagtcca    240
248 ctaagttaac ttcatccatt aattttgtta acgtgaaagg aaattcggtc attttctatg    300
249 gccgaattgc ccttgtagtt cacaaaatta catataaaac caccgaattg ccgttctcgt    360
250 taacagaaaa aatgaatgaa gttaacccag tggactaaaa tggcaacgat gaaaccattt    420
251 tggatccaca ggcgaaaaat gaaacttttg gactaaactg gcgaaaaata aaacttttgg    480
252 actaaactac atgaactaaa atggctttta actaaatttt aataaccgtt ttaattttat    540
253 aaagagaaaa taaactttac aaaaagcatc gcttgtctat tttataaaga ttaaagttac    600
254 ttgcacgttc aaacatatgt tactagatga atcaagagtc atgtacaact ctatgtttag    660
255 ataaggttac tagatgaata tgagttagtc atctataagt ctatacttag aaagttcaaa    720
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001
TIME: 12:54:02

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08162001\I923844.raw

```
--> 256                                                              780tgtagttgaa ttcataaaag
tcaatgatt tgtattgaat actgtttgta gttgaattca taaaagcttt gaatactgtt
    258 <210> SEQ ID NO: 6
    259 <211> LENGTH: 1089
    260 <212> TYPE: DNA
    261 <213> ORGANISM: Helianthus annuus
    263 <400> SEQUENCE: 6
    264 atcctactac ctcaaacttt atctaattca tcaacacaac ggaggtttgg ttatatttgt    60
    265 ttggtccatc caaaaggaca aaaatgcact tcatcttaac aaaaaaaaaa aaaaaaaaaa   120
    266 ctaagttagt gatttggatg aaaatgacaa acaaaaggac aaaaatgcac ttcatcttaa   180
    267 caaaaaaaaa actgagttag taatttggat gaaaacgaca aaaaaagaca aacctgaaag   240
    268 attcaaatgc acaaaaaaat tattttggat gaaacacgca tatatgatca aacccaagag   300
    269 acgattttaa tattttactc gaaattttaa aagaagttaa tattagacag gaatcatgtt   360
    270 agagacatat gccaaaccta ttaattttct aagttcaaac aaaaatctat tattttttcc   420
    271 aaaccacagc tataatttat gtaattttat ctctataaat ggacaaagaa taaaagtttt   480
    272 ctacaaacgg taacaacaag gaagctaccc tcgttttgaa gatagttaag acaataattc   540
    273 aactactttc taactacttt tctcacaaga cttaattttc cacacacatc tttatgacta   600
    274 aatctaccat atgtgatggg ccagtcaacc attaatatgt cttcaaccac aagtcggtaa   660
    275 accggaccat cagccacttg gccacgggcg cagcttagtg gaaaccgggg gtgcacaacc   720
    276 cctctaatgt ttcggttaga agtgcaaaat ttacgatttt tcgtccgaaa attttcgccc   780
    277 accagaactt ttagtcaaac ttcgccactg cactttgccc aatgttctat taaggttttt   840
    278 atttttatttt tattattttt tataacgatt ccaaaaattt tttggacata tacatctgac   900
    279 atgcgttata tgtagatata gaatttgaac tcgcaacctt ttaattatac gatacatcac   960
E--> 280                                                             1020tttaaaccac caccactaca
cacctagatt tgaattctca ttgggcccaa tggtctataa ataatgcacc aacccctcag
```

```
<210> 2
<211> 371
<212> PRT
<213> Helianthus annuus

<400> 2
Met Glu Phe Leu Lys Ala Pro Thr Leu Leu Leu Val Ile Phe Ser Leu 1
5                   10                  15      Thr Ala Ile Cys Ser Pro Ile Ser Ala
Gln Asn Lys Gly Gly Tyr Trp Pro                 20                  25
30              Ser Trp Ala Gln Asp Phe Leu Pro Pro Ser Asn Ile Gln Thr Ala Tyr
35                  40                  45              Phe Thr His Val Tyr Tyr
Ala Phe Leu Ser Pro Asn Asn Val Thr Phe  50                  55
60              Gln Phe Asp Val His Arg Thr Thr Ala Ser Ala Leu Asn Ser Phe
Asn65               70                  75                  80      Thr Ala Leu
His Gly Lys Asn Pro Pro Val Lys Thr Leu Phe Ser Ile       85
90              95      Gly Gly Gly Ser Ala Gly Val Lys Gln Leu Phe Ser Lys
Leu Ala Ser      100                 105                 110             Ser
Pro Gly Ser Arg Ala Ala Phe Ile Arg Ser Thr Ile Gln Val Ala       115
120             125             Arg Asn Tyr Tyr Phe Asp Gly Ala Asp Leu Asp
Trp Glu Tyr Pro Glu   130             135             140
Thr Gln Thr Asp Met Asn Asn Phe Gly Leu Leu Leu Asp Glu Trp Arg145
150                 155             160 Val Ala Val Asn Asn Glu Ala Thr Ser
Thr Gly Lys Pro Arg Leu Leu             165             170
175     Leu Ser Ala Ala Thr Arg His Glu Pro Glu Val Arg Asp Asn Gly Val
180             185             190             Ala Lys Tyr Pro Val Ala Ser
Ile Asn Lys Asn Leu Asp Gly Ile Asn       195             200
205             Ala Met Cys Tyr Asp Tyr His Gly Pro Trp Thr Pro Asp Ala Thr Gly
210             215             220             Ala Pro Ala Ala Leu
Tyr Asn Pro Asn Gly Ser Leu Ser Thr Ser Asn225            230
235             240 Gly Leu Gln Ser Trp Ile Ser Ala Gly Ile Gln Arg Gln Lys
Leu Val          245             250             255     Met Gly
Met Pro Leu Tyr Gly Trp Thr Trp Lys Leu Lys Asn Pro Ser       260
265             270             Val Asn Gly Ile Gly Ala Pro Ala Ala Gly Ile Gly
Pro Gly Asn Glu   275             280             285
Gly Ala Met Leu Tyr Ser Glu Val Gln Gln Phe Asn Ala Gln Asn Asn       290
295             300             Ala Arg Val Val Tyr Asp Thr Gln Thr Val
Ser Tyr Tyr Ser Tyr Ser305            310             315
320 Gly Thr Thr Trp Ile Gly Tyr Asp Asp Val Asn Ser Val Gln Arg Lys
325             330             335     Val Gln Tyr Ala Lys Ser Leu Asn
Ile Gly Gly Tyr Phe Phe Trp Thr       340             345
350             Ala Val Gly Asp Gln Asp Trp Lys Ile Ser Arg Leu Ala Ser Gln Thr
355             360             365             Trp Thr Ala       370
```

(handwritten annotation at right:) insert hard return after last amino acid on each line and after last amino acid number on each line

(handwritten note, top:) hard ret

(handwritten note at bottom:) Please make similar edits to figs. 4-6, too — same format error

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/923,844

DATE: 08/16/2001
TIME: 12:54:03

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF3\08162001\I923844.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:177 M:252 E: No. of Seq. differs, <211>LENGTH:Input:371 Found:352 SEQ:2
L:236 M:252 E: No. of Seq. differs, <211>LENGTH:Input:97 Found:80 SEQ:4
L:256 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:256 M:252 E: No. of Seq. differs, <211>LENGTH:Input:849 Found:720 SEQ:5
L:280 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:280 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1089 Found:960 SEQ:6